

ANDERSEN CORPORATION

100 SERIES NON-REINFORCED

& LVL MULLION JOINING

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
3. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±1/2 INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
4. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE 1X BUCKING, SHEATHING, & WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
5. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
6. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
7. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
- A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
 - B. CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
 - C. GROUT-FILLED CMU- UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AND GROUT CONFORMS TO ASTM C 476, MINIMUM GROUT COMPRESSIVE STRENGTH OF 2000 PSI.
 - D. HOLLOW BLOCK CMU - UNIT STRENGTH CONFORMS TO ASTM C-90 WITH MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI.
 - E. STEEL - MINIMUM WALL THICKNESS OF 54 MILS (16 GA.) WHEN THROUGH GUSSET INSTALLATION.
 - F. ALUMINUM - 1/8" MINIMUM THICKNESS (6063-T5)

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE 5TH EDITION (2014) FLORIDA BUILDING CODE (FBC) EXCLUDING HVHZ, 2012 INTERNATIONAL BUILDING CODE & 2012 INTERNATIONAL RESIDENTIAL CODE. ALL PRODUCTS UNDER THE SCOPE OF THIS DOCUMENT HAVE BEEN EVALUATED ACCORDING TO THE 2014 FBC AND THE FOLLOWING:
- AAMA 450-10
 - FBC SECTION 1710.5.3
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X AND METAL STUD FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
3. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT IN NON-HVHZ AREAS. IN HVHZ AREAS, ONE TIME PRODUCT APPROVAL TO BE OBTAINED FROM MIAMI-DADE PERA OR AHJ.
5. APPROVED IMPACT PROTECTIVE SYSTEM **IS REQUIRED** TO PROTECT THIS PRODUCT IN AREAS REQUIRING IMPACT RESISTANCE.
6. MULLION MATERIAL:
- 6.1. NON-REINFORCED: FIBERGLASS
 - 6.2. LVL REINFORCED: LAMINATED VENEER LUMBER, (MIN. DOUGLAS-FIR, E = 1,800 KSI, Fb = 2,400 PSI)
7. IN ACCORDANCE WITH THE 2014 FBC, DISSIMILAR METALS INCLUDING FASTENERS SHALL BE PROTECTED FROM GALVANIC CORROSION.
- 11.CUSTOM SIZES AVAILABLE UPON REQUEST. CUSTOM DESIGN PRESSURE WILL BE ASSIGNED EQUAL TO NEXT LARGER STANDARD SIZE.
- 12.INTERIOR TRIM OPTIONS MAY VARY IN ACCORDANCE WITH ANDERSEN'S RECOMMENDATIONS.
- 13.MULL ASSEMBLIES ARE QUALIFIED FOR TWO OR MORE UNITS PER OPENING IN THE FOLLOWING CONFIGURATION:
- "ONE WAY" - RIBBON OR STACKED MULLIONS
 - "TWO WAY" - 'X' OR 'T' MULLIONS, SEE SHEET 13 FOR TYPICAL ELEVATION TYPES.

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PRODUCT ABBREVIATION KEY	
ABBREVIATION	PRODUCT NAME
PW =	PICTURE WINDOW FRAME
CS =	CASEMENT WINDOW FRAME
AW =	AWNING WINDOW FRAME
SH =	SINGLE HUNG WINDOW FRAME
GL =	GLIDING WINDOW FRAME

MULLING INSTRUCTIONS:

- STEP 1: ESTABLISH MULL ASSEMBLY FRAME TYPES AND MULL CONFIGURATION.
- STEP 2: VERIFY MULL ASSEMBLY CONSTRUCTION FROM SHEETS 2-3 (REFER TO ABBREVIATION TABLE ABOVE).
- STEP 3: DETERMINE ALLOWABLE LOAD OF MULL ASSEMBLY FROM APPLICABLE LOAD TABLE, REFER TO SHEETS 6-10.
- STEP 4: INSTALL MULLION BASED ON APPLICABLE SPECIFICATIONS & DETAILS SHOWN ON SHEETS 4-5.

MISSILE IMPACT RATING
NON-IMPACT



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TITLE: 100 SERIES NON-REINF. & LVL MULLIONS GENERAL AND INSTALLATION NOTES

PREPARED BY:
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REVISIONS	DESCRIPTION	NO.	BY		DATE	



DATE: 08.02.16	DWN BY: MSS	CHK BY: HFN	SCALE: NTS
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Reason: I am approving this document
Date: 2016.08.25 19:00:57 -04'00'

DWG #:
AWD103

SHEET: 1 OF 13

FL#: FL15922

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INTERIOR

PVC MULLION TRIM
EXTERIOR/INTERIOR

#8 SELF-TAPPING SCREWS
ALTERNATING, 10" O.C. MAX.

GROUP III

EXTERIOR

TWO BEADS OF SILICONE
USED TO SEAL EXT. PVC CAP
NON-REINF. FIBERGLASS
JOINING STRIP

A
2

PW TO PW

VERTICAL OR HORIZONTAL MULL
NON-REINFORCED JOINING

INTERIOR

PVC MULLION TRIM
EXTERIOR/INTERIOR

#8 SELF-TAPPING SCREWS
ALTERNATING, 10" O.C. MAX.

GROUP III

EXTERIOR

TWO BEADS OF SILICONE
USED TO SEAL EXT. PVC CAP
NON-REINF. FIBERGLASS
JOINING STRIP

B
2

PW TO CS/AW

VERTICAL OR HORIZONTAL MULL
NON-REINFORCED JOINING

INTERIOR

PVC MULLION TRIM
EXTERIOR/INTERIOR

#8 SELF-TAPPING SCREWS
ALTERNATING, 10" O.C. MAX.

GROUP III

EXTERIOR

TWO BEADS OF SILICONE
USED TO SEAL EXT. PVC CAP
NON-REINF. FIBERGLASS
JOINING STRIP

C
2

CS/AW TO CS/AW

VERTICAL OR HORIZONTAL MULL
NON-REINFORCED JOINING

INTERIOR

PVC MULLION TRIM
EXTERIOR/INTERIOR

#8 SELF-TAPPING SCREWS
ALTERNATING, 10" O.C. MAX.

GROUP II

EXTERIOR

TWO BEADS OF SILICONE
USED TO SEAL EXT. PVC CAP
NON-REINF. FIBERGLASS
JOININT STRIP

D
2

PW TO SH/GL

VERTICAL OR HORIZONTAL MULL
NON-REINFORCED JOINING

INTERIOR

PVC MULLION TRIM
EXTERIOR/INTERIOR

#8 SELF-TAPPING SCREWS
ALTERNATING, 10" O.C. MAX.

GROUP I

EXTERIOR

TWO BEADS OF SILICONE
USED TO SEAL EXT. PVC CAP
NON-REINF. FIBERGLASS
JOININT STRIP

E
2

SH/GL TO SH/GL

VERTICAL OR HORIZONTAL MULL
NON-REINFORCED JOINING



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MULL ASSEMBLY SECTIONS -
NON-REINFORCED MULLS
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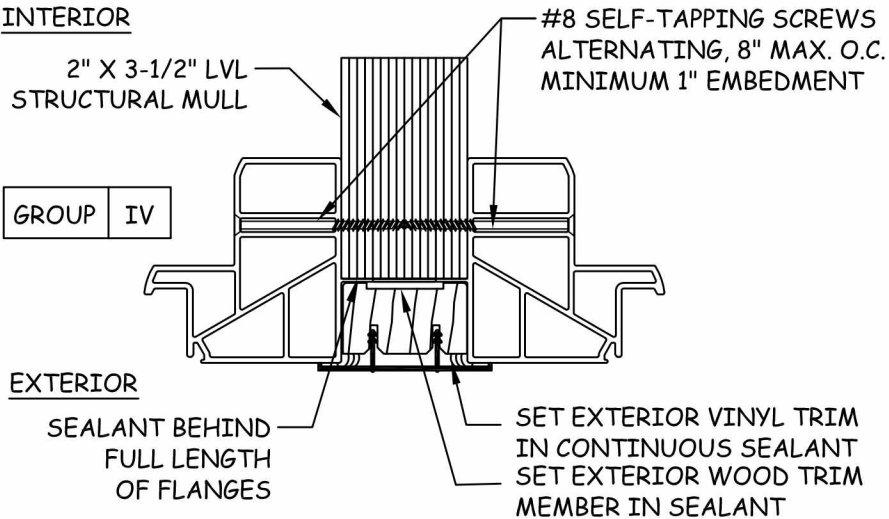


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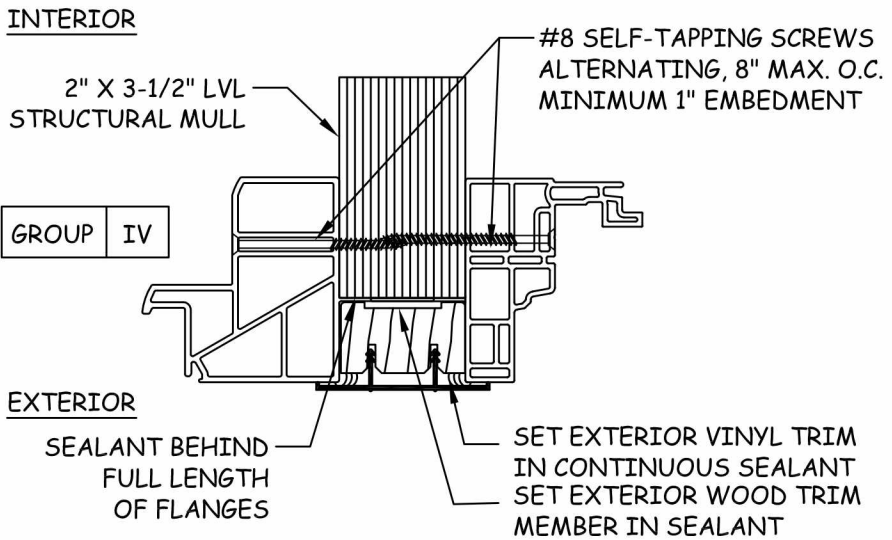
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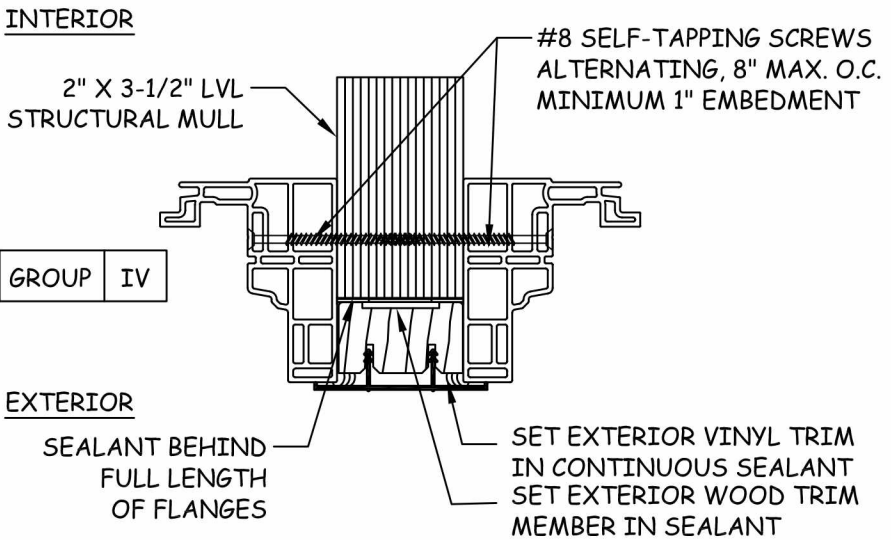
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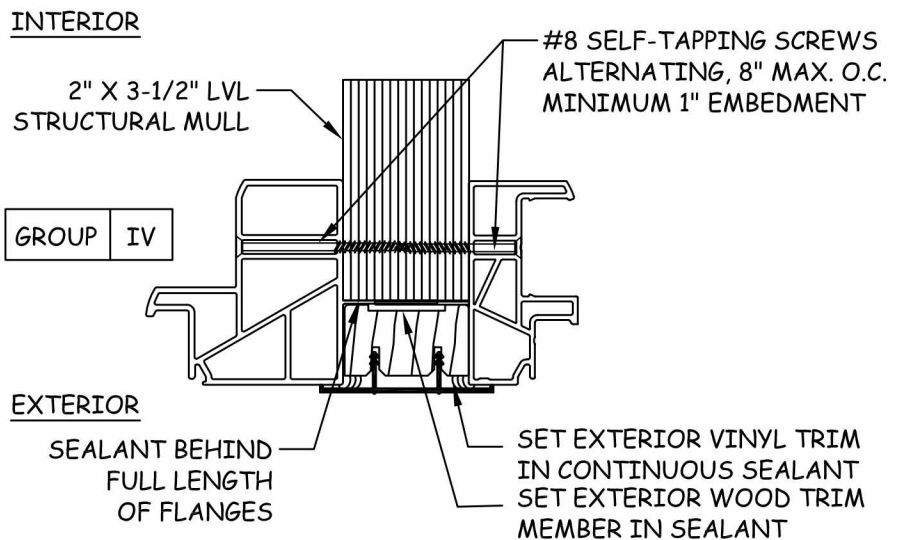
A
3 **PW TO PW**
VERTICAL OR HORIZONTAL MULL
LVL REINFORCED JOINING



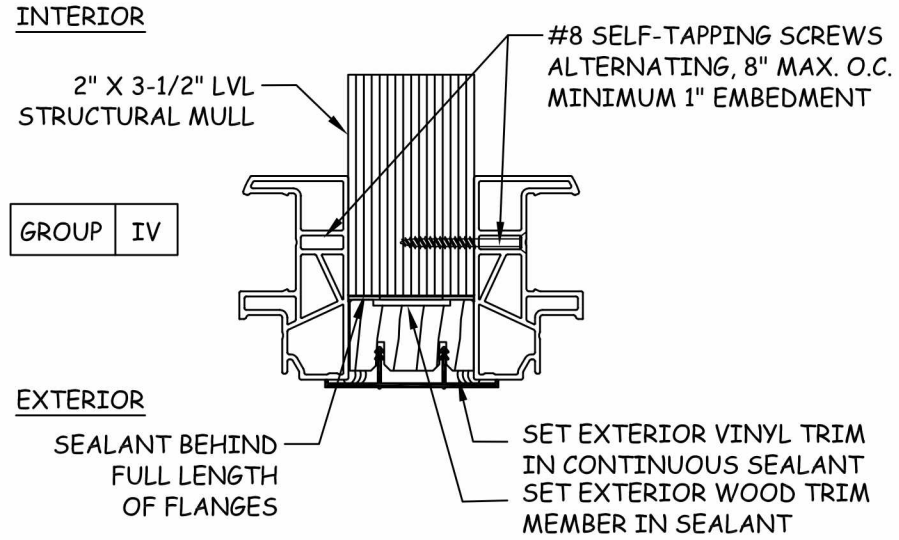
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3 **PW TO CS/AW**
VERTICAL OR HORIZONTAL MULL
LVL REINFORCED JOINING



C
3 **CS/AW TO CS/AW**
VERTICAL OR HORIZONTAL MULL
LVL REINFORCED JOINING



D
3 **PW TO SH/GL**
VERTICAL OR HORIZONTAL MULL
LVL REINFORCED JOINING



E
3 **SH/GL TO SH/GL**
VERTICAL OR HORIZONTAL MULL
LVL REINFORCED JOINING



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MULL ASSEMBLY SECTIONS -
LVL REINFORCED MULLS

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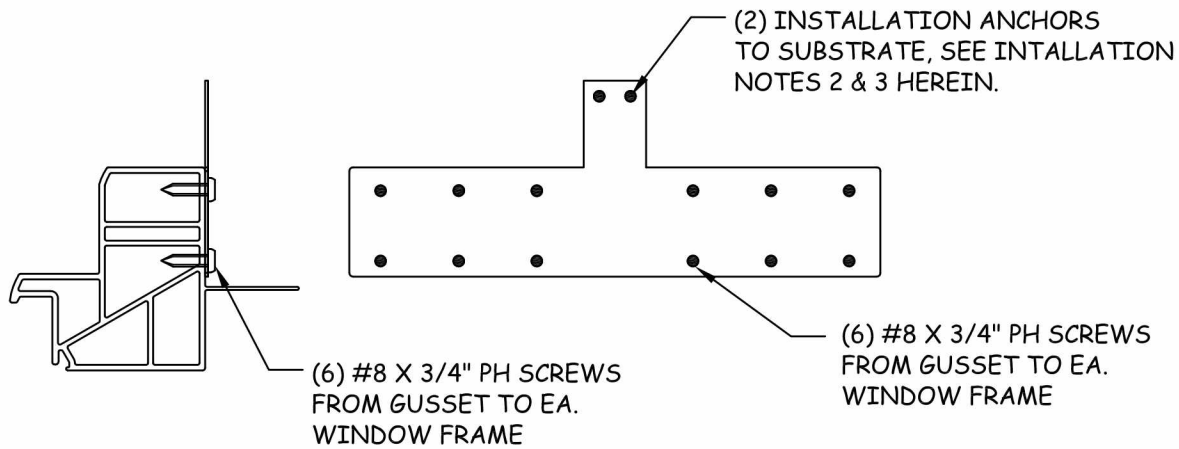


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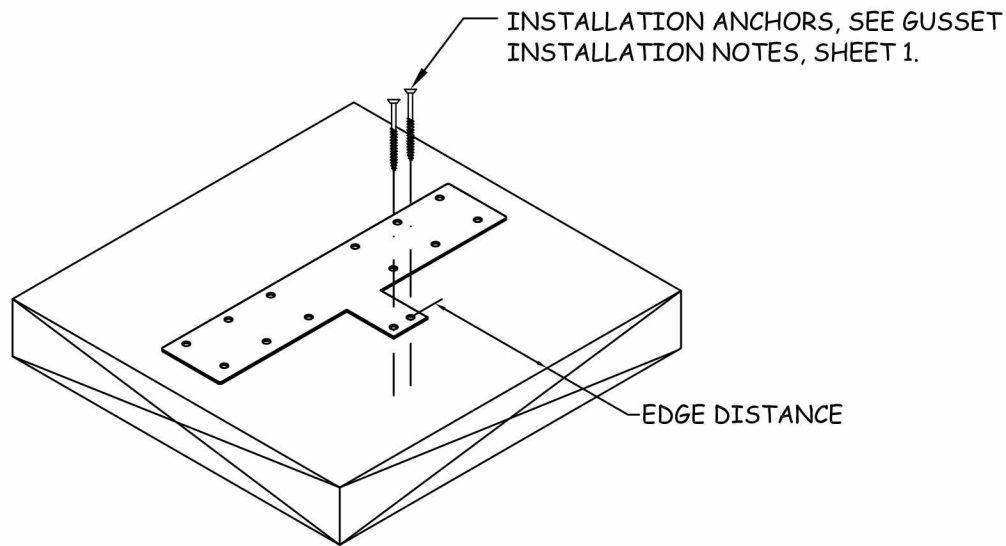
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SHEET: **3 OF 13**

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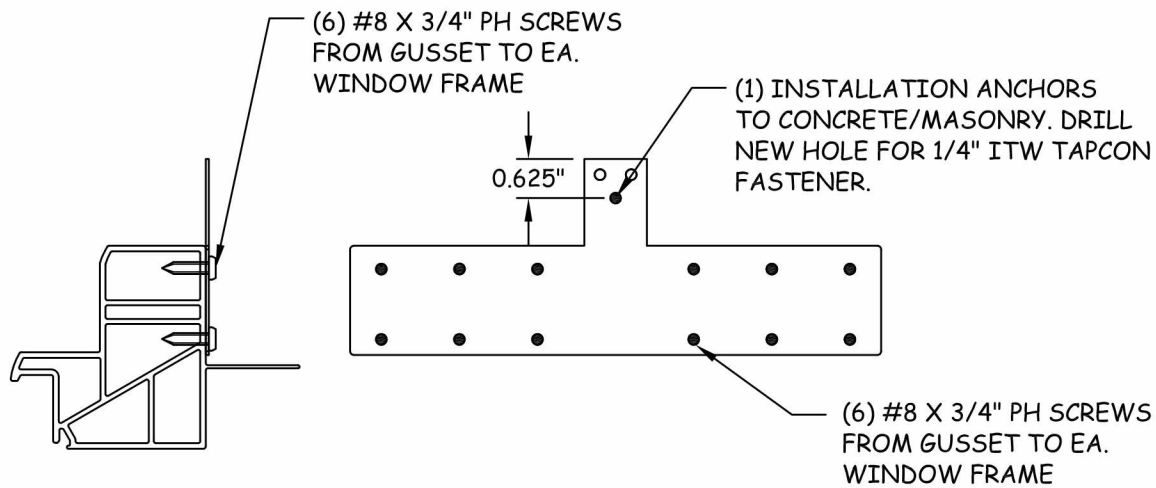
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A
4 **TYPICAL DETAIL**
GUSSET TO WOOD/METAL STUD
NON-REINFORCED MULLION INSTALLATION



C
4 **ISOMETRIC VIEW**
GUSSET INSTALLATION, TYP.
NON-REINFORCED MULLION



B
4 **TYPICAL DETAIL**
GUSSET TO CONCRETE/MASONRY
NON-REINFORCED MULLION INSTALLATION

INSTALLATION NOTES:

1. EACH WINDOW FRAME SHALL BE ATTACHED TO GUSSET WITH (6) #8 PH X 3/4" SCREWS.
2. FOR INSTALLATION THROUGH 2X BUCK USE (2) #10 FH WOOD SCREWS. INSTALLATION SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
 - 2.1. MINIMUM EMBEDMENT OF 1-1/2" INTO WOOD
 - 2.2. MINIMUM EDGE DISTANCE OF 3/4"
3. FOR INSTALLATION THROUGH METAL FRAME USE (2) #10 FH SELF-DRILLING OR SELF-TAPPING, SAE GR. 5, TYPE SCREWS. INSTALLATION SHALL CONFORM TO THE FOLLOWING REQUIREMENTS.
 - 3.1. THREE (3) THREADS MINIMUM PENETRATION BEYOND METAL FRAME WALL.
 - 3.2. MINIMUM EDGE DISTANCE OF 1/2"
4. FOR INSTALLATION DIRECT TO CONCRETE/MASONRY SUBSTRATES OR THROUGH 1X BUCK TO CONCRETE/MASONRY SUBSTRATES, USE (1) 1/4" FH ITW TAPCON TYP ANCHORS. INSTALLATION SHALL CONFORM TO THE FOLLOWING REQUIREMENTS.
 - 4.1. MINIMUM EMBEDMENT OF 1-3/4" INTO SUBSTRATE
 - 4.2. MINIMUM EDGE DISTANCE OF 2"
5. "MASONRY" SUBSTRATES REFER TO GROUT FILLED OR HOLLOW BLOCK OPENINGS.
6. SEE SHEET 1, INSTALLATION NOTE 7 FOR SUBSTRATE MINIMUM PROPERTIES.



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INSTALLATION DETAILS

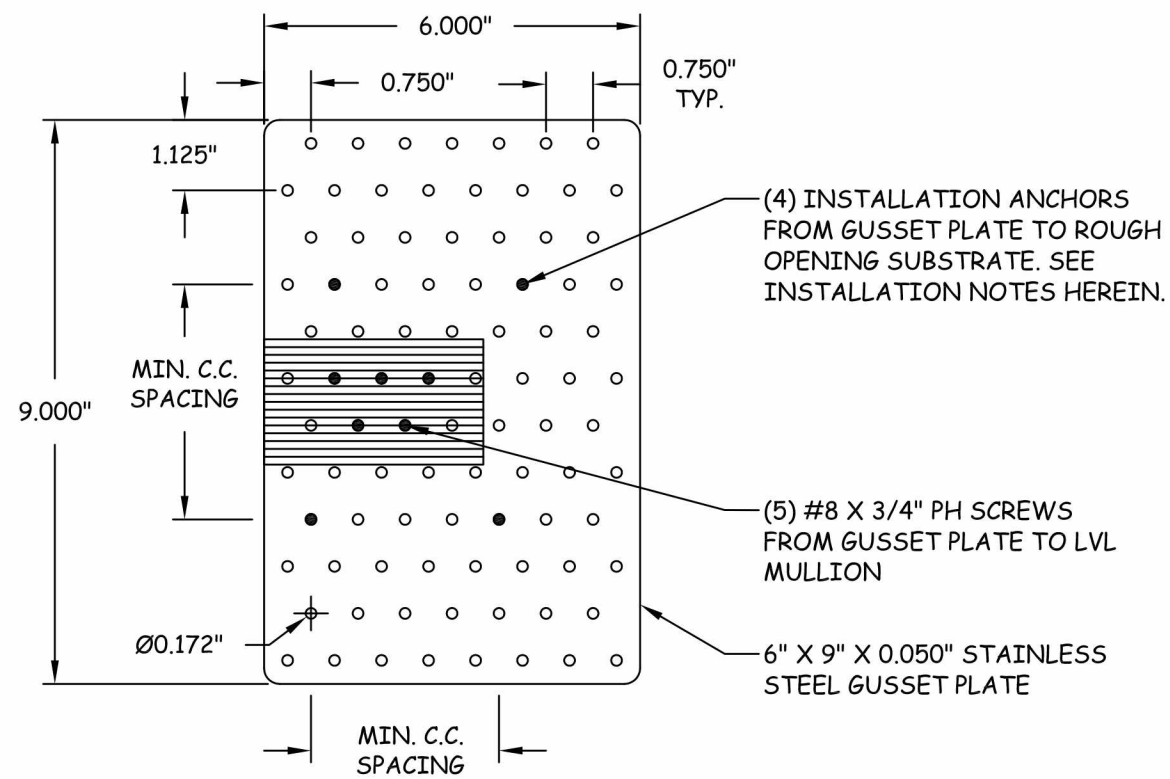
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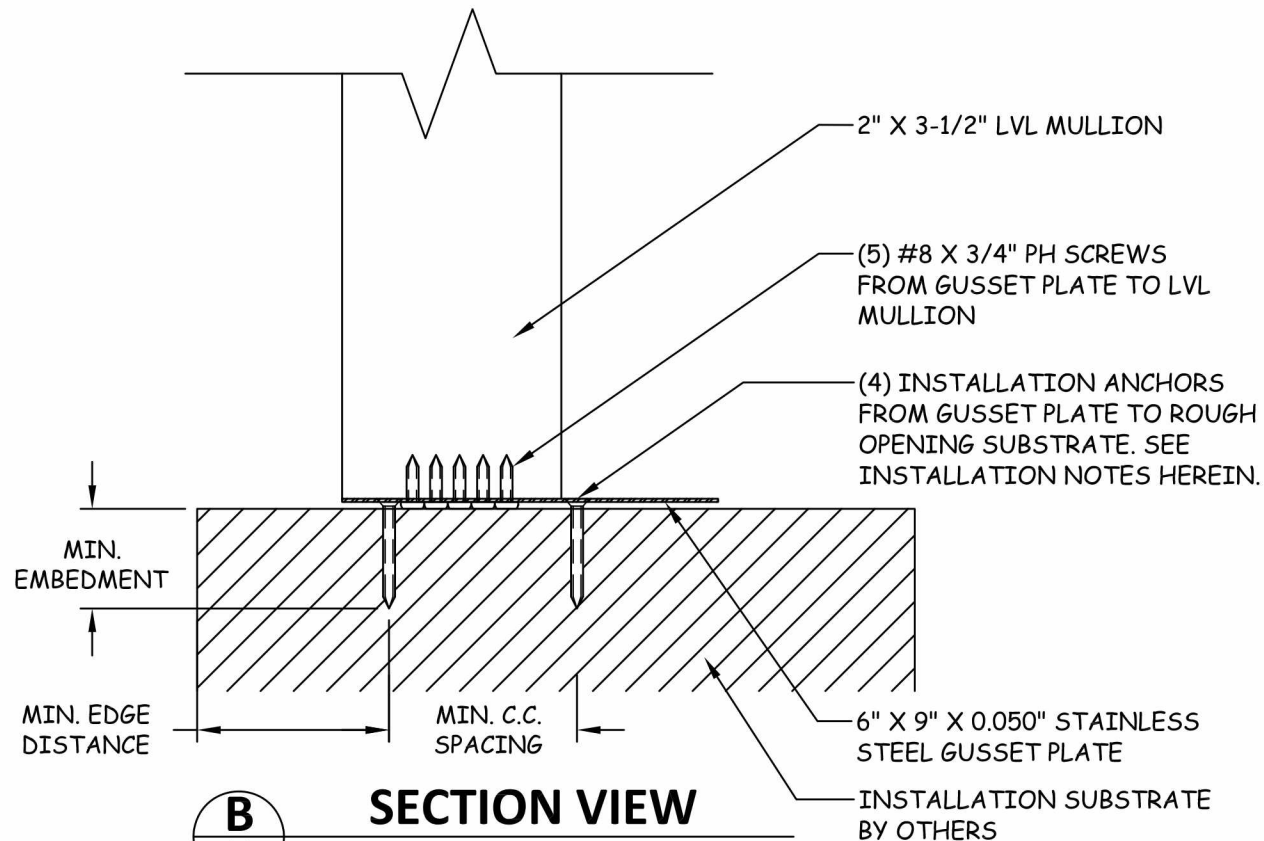


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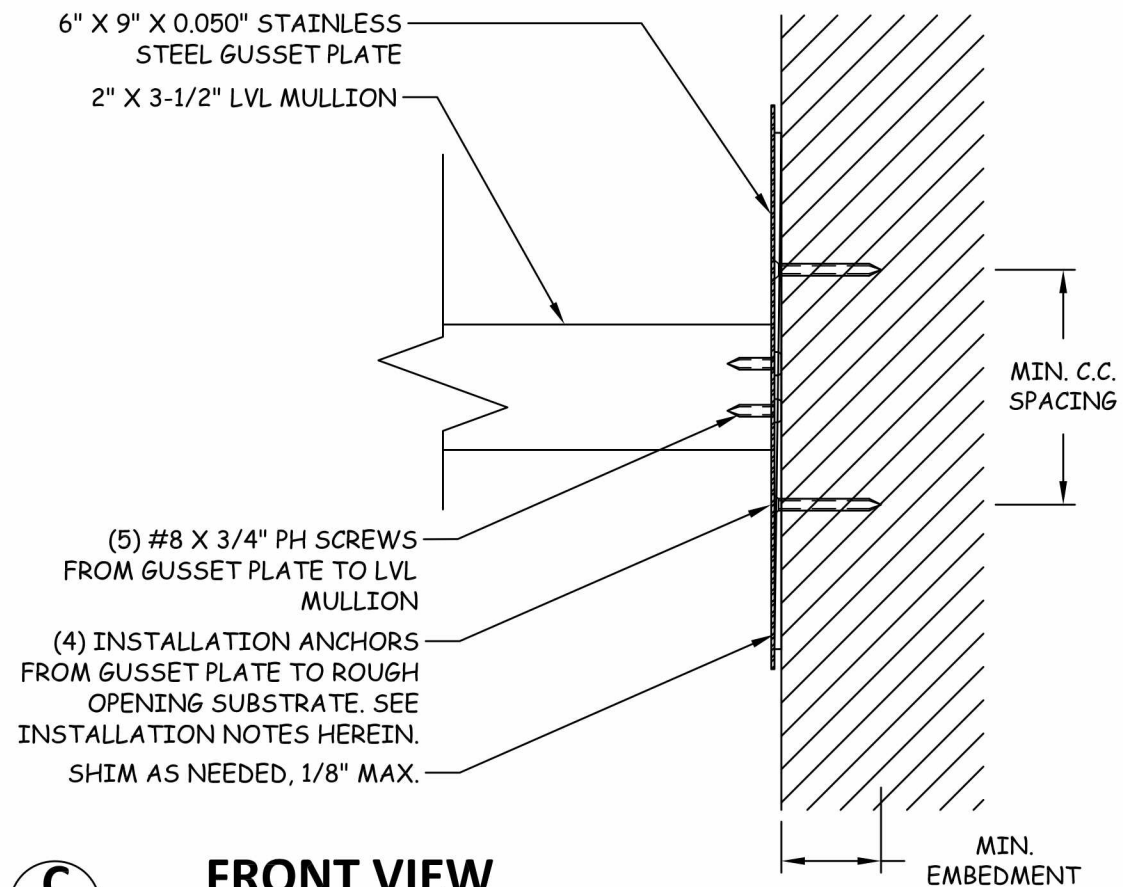
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SHEET: **4 OF 13**



A
5
PLAN VIEW
VERTICAL OR HORIZONTAL MULL
LVL REINFORCED JOINING INSTALLATION



B
5
SECTION VIEW
VERTICAL OR HORIZONTAL MULL
LVL REINFORCED JOINING INSTALLATION



C
5
FRONT VIEW
VERTICAL OR HORIZONTAL MULL
LVL REINFORCED JOINING INSTALLATION

INSTALLATION NOTES:

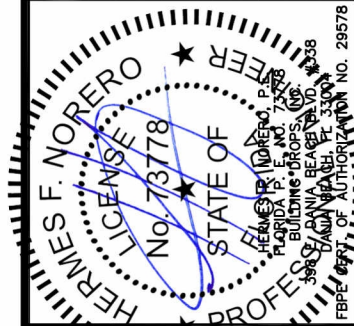
- GUSSET SHALL BE INSTALLED TO LVL MULLION WITH MIN. (5) #8 X 3/4" PH SCREWS.
- FOR INSTALLATION THROUGH 2X BUCK USE #10 FH WOOD SCREWS. INSTALLATION SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
 - 2.1. MINIMUM EMBEDMENT OF 1-1/2" INTO WOOD
 - 2.2. MINIMUM EDGE DISTANCE OF 3/4"
 - 2.3. MINIMUM C.C. SPACING OF 3/4"
- FOR INSTALLATION THROUGH METAL FRAME USE #10 FH SELF-DRILLING OR SELF-TAPPING, SAE GR. 5, TYPE SCREWS. INSTALLATION SHALL CONFORM TO THE FOLLOWING REQUIREMENTS.
 - 3.1. THREE (3) THREADS MINIMUM PENETRATION BEYOND METAL FRAME WALL.
 - 3.2. MINIMUM EDGE DISTANCE OF 1/2"
 - 3.3. MINIMUM C.C. SPACING OF 3/4"
- FOR INSTALLATION DIRECT TO CONCRETE/MASONRY SUBSTRATES OR THROUGH 1X BUCK TO CONCRETE/MASONRY SUBSTRATES, USE 1/4" FH ITW TAPCON TYP ANCHORS. INSTALLATION SHALL CONFORM TO THE FOLLOWING REQUIREMENTS.
 - 4.1. MINIMUM EMBEDMENT OF 1-3/4" INTO SUBSTRATE
 - 4.2. MINIMUM EDGE DISTANCE OF 2"
 - 4.3. MINIMUM C.C. SPACING OF 3"
- "MASONRY" SUBSTRATES REFER TO GROUT FILLED OR HOLLOW BLOCK OPENINGS.
- SEE SHEET 1, INSTALLATION NOTE 7 FOR SUBSTRATE MINIMUM PROPERTIES.



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ONE WAY LOAD TABLE: WOOD,
METAL STUD, OR CONCRETE INSTALL.
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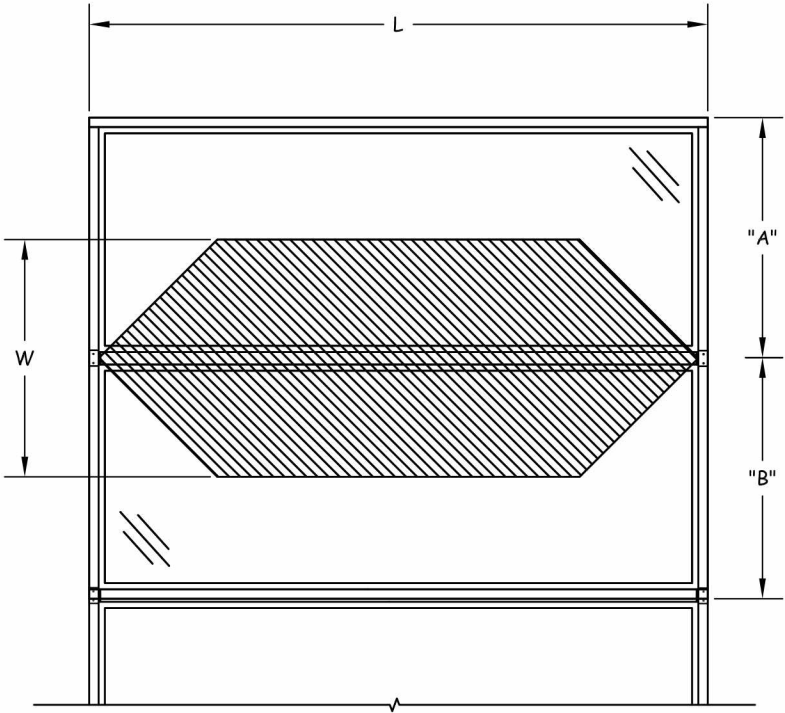
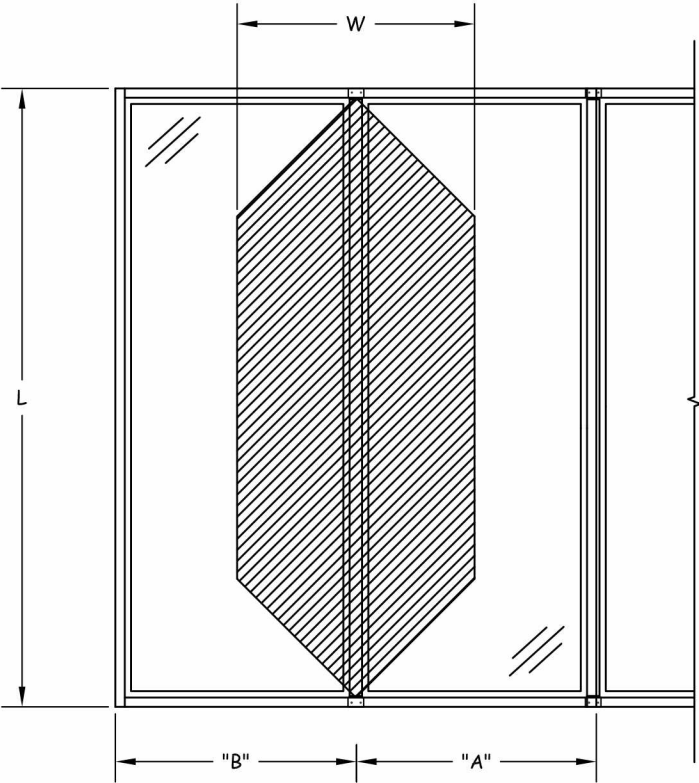
FIBERGLASS NON-REINFORCED MULL TABLE: GROUP I

DESIGN PRESSURE CAPACITIES FOR INSTALLATION INTO 2X WOOD/METAL STUD/CONCRETE INSTALLATIONS

L - Mull Length (in)	MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF): WOOD/METAL STUD/CONCRETE INSTALLATIONS																		
	W - Tributary Width (in)																		
	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0
36.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
42.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
48.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
54.0	45.0	45.0	45.0	45.0	42.2	39.4	37.3	35.6	34.4	33.4	32.8	32.4	32.3	32.3	32.3	32.3	32.3	32.3	32.3
57.0	45.0	45.0	42.5	38.5	35.4	33.0	31.1	29.6	28.4	27.5	26.8	26.4	26.1	26.0	26.0	26.0	26.0	26.0	26.0
60.0	45.0	40.7	36.2	32.7	30.0	27.9	26.2	24.9	23.8	22.9	22.3	21.8	21.5	21.3	21.2	21.2	21.2	21.2	21.2
63.0	40.3	35.0	31.0	28.0	25.7	23.8	22.3	21.1	20.1	19.3	18.7	18.2	17.9	17.6	17.5	17.4	17.4	17.4	17.4
66.0	35.0	30.3	26.9	24.2	22.2	20.5	19.2	18.1	17.2	16.5	15.9	15.4	15.1	-	-	-	-	-	-
69.0	30.5	26.4	23.4	21.1	19.3	17.8	16.6	15.6	-	-	-	-	-	-	-	-	-	-	-
72.0	26.8	23.2	20.5	18.5	16.8	15.5	-	-	-	-	-	-	-	-	-	-	-	-	-
75.0	23.7	20.5	18.1	16.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
78.0	21.0	18.1	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
81.0	18.7	16.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
84.0	16.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
87.0	15.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
90.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTE:

1. MULLION CHART APPLIES TO NON-REINFORCED ASSEMBLIES, WHEN MULLED IN ONE-WAY, STACK OR RIBBON, CONFIGURATIONS.
2. DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
3. MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
4. DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS SHALL BE UNDER SEPARATE FL APPROVAL.
5. MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS:
GUSSET INSTALLATION TO 2X WOOD, METAL STUD, OR CONCRETE
6. TRIBUTARY WIDTH = W = (A+B)/2
7. REFER TO SHEET 4 FOR INSTALLATION DETAILS.
8. WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



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BAYPORT, MN 55003-1096
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TITLE: 100 SERIES NON-REINF.
& LVL MULLIONS
GROUP I ONE WAY LOAD TABLE: 2X
WOOD/METAL STUD/CONCRETE

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004

PH: (954) 399-8478 FX: (954) 744-4738

REVISIONS	NO.	DESCRIPTION	BY	DATE



DATE: 08.02.16

DWN BY: MSS

CHK BY: HFN

SCALE: NTS

DWG #: **AWD103**
SHEET: **6 OF 13**

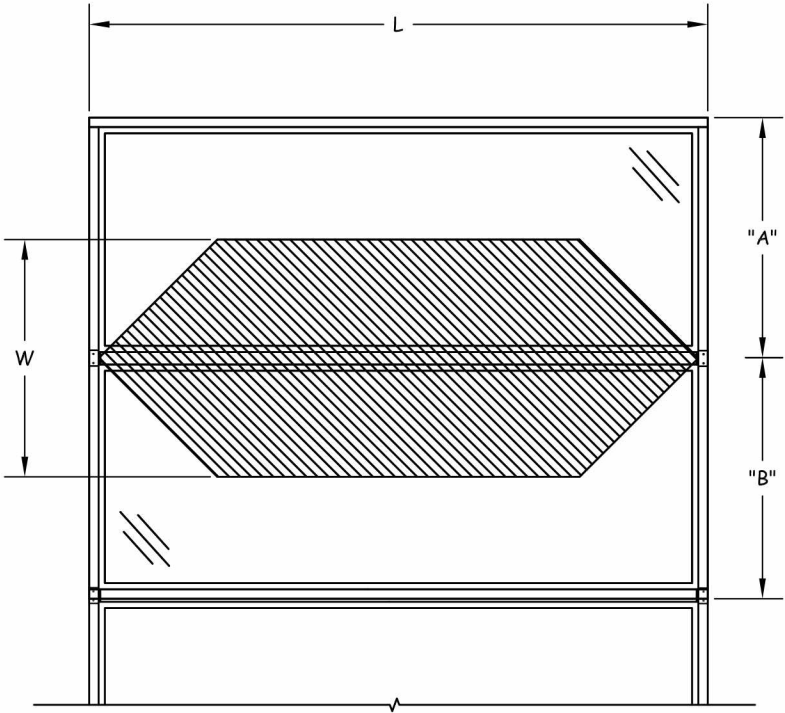
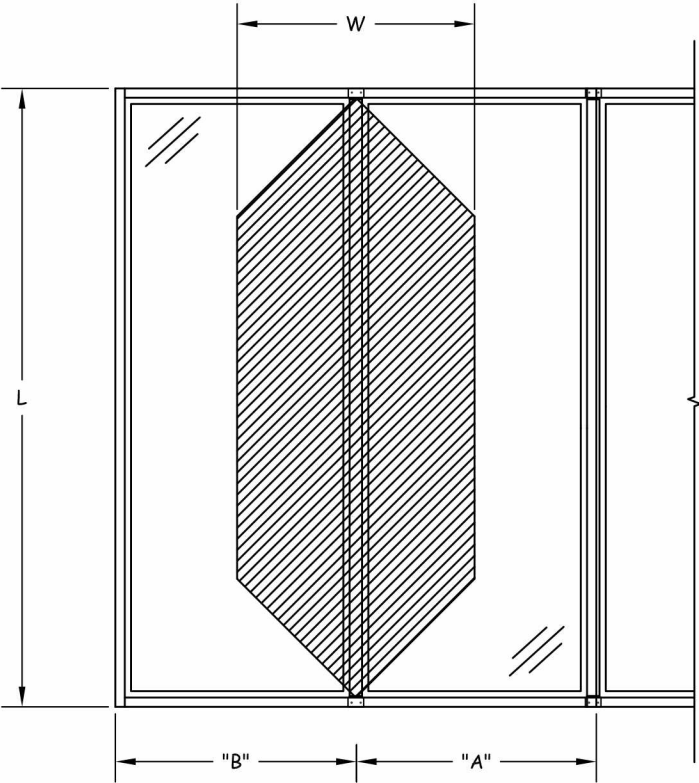
FIBERGLASS NON-REINFORCED MULL TABLE: GROUP I

DESIGN PRESSURE CAPACITIES FOR INSTALLATION INTO GROUT FILLED OR HOLLOW BLOCK SUBSTRATES

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF): GROUT FILLED OR HOLLOW BLOCK INSTALLATIONS																			
L - Mull Length (in)	W - Tributary Width (in)																		
	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0
36.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
42.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
48.0	45.0	45.0	45.0	44.5	41.9	39.9	38.4	37.3	36.6	36.1	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
54.0	45.0	45.0	41.1	37.9	35.4	33.5	32.0	30.8	29.9	29.3	28.8	28.5	28.4	28.4	28.4	28.4	28.4	28.4	28.4
57.0	45.0	42.5	38.4	35.3	32.9	31.0	29.5	28.4	27.4	26.7	26.2	25.8	25.6	25.5	25.5	25.5	25.5	25.5	25.5
60.0	45.0	39.9	36.0	32.7	30.0	27.9	26.2	24.9	23.8	22.9	22.3	21.8	21.5	21.3	21.2	21.2	21.2	21.2	21.2
63.0	40.3	35.0	31.0	28.0	25.7	23.8	22.3	21.1	20.1	19.3	18.7	18.2	17.9	17.6	17.5	17.4	17.4	17.4	17.4
66.0	35.0	30.3	26.9	24.2	22.2	20.5	19.2	18.1	17.2	16.5	15.9	15.4	15.1	-	-	-	-	-	-
69.0	30.5	26.4	23.4	21.1	19.3	17.8	16.6	15.6	-	-	-	-	-	-	-	-	-	-	-
72.0	26.8	23.2	20.5	18.5	16.8	15.5	-	-	-	-	-	-	-	-	-	-	-	-	-
75.0	23.7	20.5	18.1	16.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
78.0	21.0	18.1	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
81.0	18.7	16.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
84.0	16.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
87.0	15.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
90.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTE:

1. MULLION CHART APPLIES TO NON-REINFORCED ASSEMBLIES, WHEN MULLED IN ONE-WAY, STACK OR RIBBON, CONFIGURATIONS.
2. DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
3. MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
4. DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS SHALL BE UNDER SEPARATE FL APPROVAL.
5. MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS:
GUSSET INSTALLATION TO GROUT FILLED OR HOLLOW BLOCK SUBSTRATES
6. TRIBUTARY WIDTH = W = (A+B)/2
7. REFER TO SHEET 4 FOR INSTALLATION DETAILS.
8. WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: 100 SERIES NON-REINF.
& LVL MULLIONS
GROUP I ONE WAY LOAD TABLE:
GROUT FILLED OR HOLLOW BLOCK

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004

PH: (954) 399-8478 FX: (954) 744-4738

REVISIONS

NO.	DESCRIPTION	DATE	
		BY	DATE



DATE: 08.02.16

DWN BY: MSS

CHK BY: HFN

SCALE: NTS

DWG #:

AWD103

SHEET: 7 OF 13

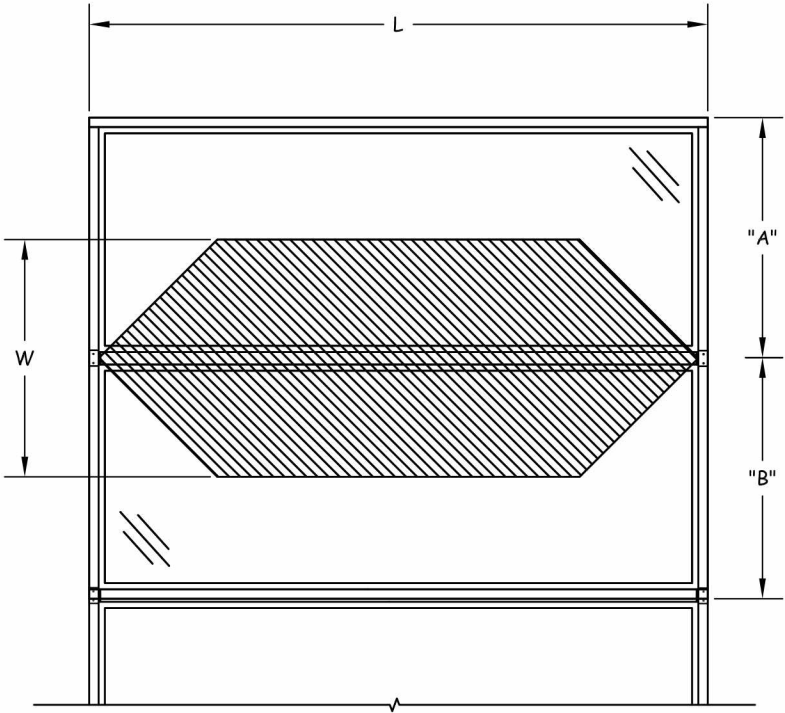
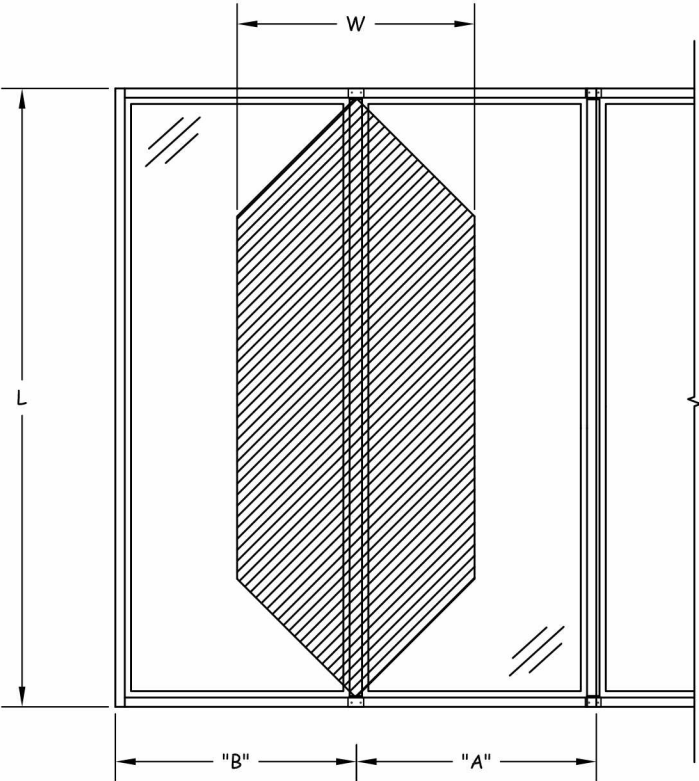
FIBERGLASS NON-REINFORCED MULL TABLE: GROUP II

DESIGN PRESSURE CAPACITIES FOR INSTALLATION INTO 2X WOOD/METAL STUD/CONCRETE INSTALLATIONS

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF): WOOD/METAL STUD/CONCRETE INSTALLATIONS																				
L - Mull Length (in)	W - Tributary Width (in)																			
	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0	
36.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	
42.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	
48.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	
54.0	45.0	45.0	45.0	45.0	45.0	43.1	40.8	38.9	37.5	36.5	35.8	35.4	35.3	35.3	35.3	35.3	35.3	35.3	35.3	
57.0	45.0	45.0	45.0	42.1	38.7	36.1	34.0	32.3	31.0	30.0	29.3	28.8	28.5	28.4	28.4	28.4	28.4	28.4	28.4	
60.0	45.0	44.5	39.5	35.7	32.8	30.5	28.6	27.2	26.0	25.1	24.3	23.8	23.4	23.2	23.1	23.1	23.1	23.1	23.1	
63.0	44.1	38.2	33.9	30.6	28.1	26.0	24.4	23.1	22.0	21.1	20.5	19.9	19.5	19.3	19.1	19.0	19.0	19.0	19.0	
66.0	38.2	33.1	29.4	26.5	24.2	22.4	21.0	19.8	18.8	18.0	17.4	16.9	16.5	16.2	16.0	15.9	15.8	15.8	15.8	
69.0	33.3	28.9	25.6	23.0	21.0	19.4	18.1	17.1	16.2	15.5	-	-	-	-	-	-	-	-	-	
72.0	29.3	25.3	22.4	20.2	18.4	17.0	15.8	-	-	-	-	-	-	-	-	-	-	-	-	
75.0	25.9	22.4	19.8	17.8	16.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
78.0	22.9	19.8	17.5	15.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
81.0	20.5	17.7	15.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
84.0	18.3	15.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
87.0	16.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
90.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

NOTE:

- MULLION CHART APPLIES TO NON-REINFORCED ASSEMBLIES, WHEN MULLED IN ONE-WAY, STACK OR RIBBON, CONFIGURATIONS.
- DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
- MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
- DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS SHALL BE UNDER SEPARATE FL APPROVAL.
- MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS: GUSSET INSTALLATION TO 2X WOOD, METAL STUD, OR CONCRETE
- TRIBUTARY WIDTH = W = (A+B)/2
- REFER TO SHEET 4 FOR INSTALLATION DETAILS.
- WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
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TITLE: 100 SERIES NON-REINF.
& LVL MULLIONS
GROUP II ONE WAY LOAD TABLE: 2X
WOOD/METAL STUD/CONCRETE

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

REVISIONS

NO.	DESCRIPTION	BY	DATE



DATE: 08.02.16
DWG BY: MSS
CHK BY: HFN
SCALE: NTS

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SHEET: **8 OF 13**

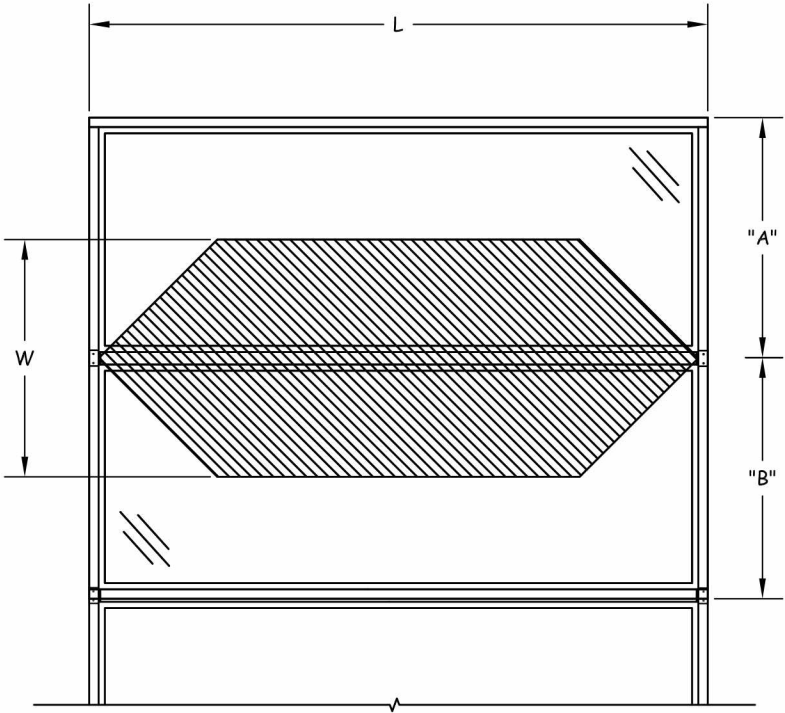
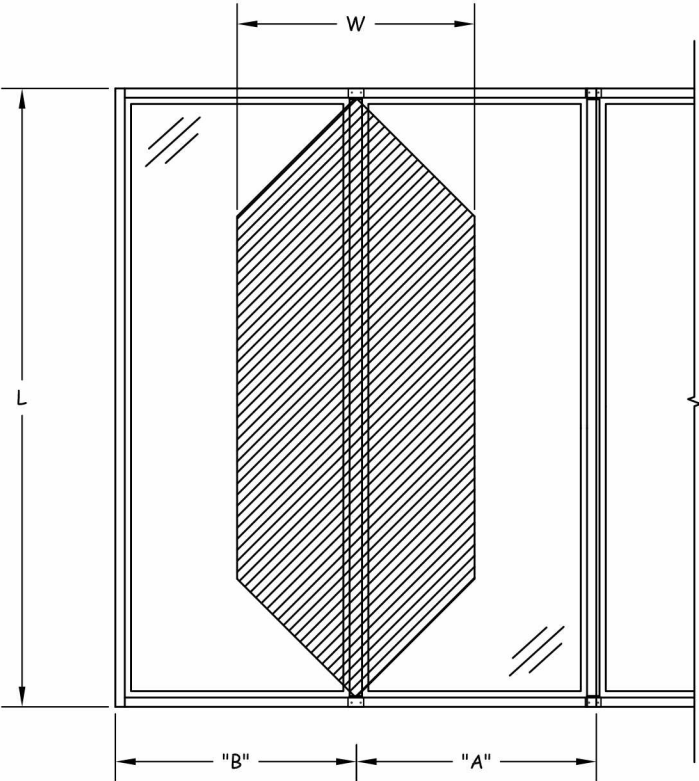
FIBERGLASS NON-REINFORCED MULL TABLE: GROUP II

DESIGN PRESSURE CAPACITIES FOR INSTALLATION INTO GROUT FILLED OR HOLLOW BLOCK SUBSTRATES

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF): GROUT FILLED OR HOLLOW BLOCK INSTALLATIONS																			
L - Mull Length (in)	W - Tributary Width (in)																		
	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0
36.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
42.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
48.0	45.0	45.0	45.0	44.5	41.9	39.9	38.4	37.3	36.6	36.1	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
54.0	45.0	45.0	41.1	37.9	35.4	33.5	32.0	30.8	29.9	29.3	28.8	28.5	28.4	28.4	28.4	28.4	28.4	28.4	28.4
57.0	45.0	42.5	38.4	35.3	32.9	31.0	29.5	28.4	27.4	26.7	26.2	25.8	25.6	25.5	25.5	25.5	25.5	25.5	25.5
60.0	45.0	39.9	36.0	33.0	30.7	28.9	27.4	26.3	25.3	24.6	24.0	23.6	23.3	23.1	23.0	23.0	23.0	23.0	23.0
63.0	42.7	37.6	33.9	30.6	28.1	26.0	24.4	23.1	22.0	21.1	20.5	19.9	19.5	19.3	19.1	19.0	19.0	19.0	19.0
66.0	38.2	33.1	29.4	26.5	24.2	22.4	21.0	19.8	18.8	18.0	17.4	16.9	16.5	16.2	16.0	15.9	15.8	15.8	15.8
69.0	33.3	28.9	25.6	23.0	21.0	19.4	18.1	17.1	16.2	15.5	-	-	-	-	-	-	-	-	-
72.0	29.3	25.3	22.4	20.2	18.4	17.0	15.8	-	-	-	-	-	-	-	-	-	-	-	-
75.0	25.9	22.4	19.8	17.8	16.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
78.0	22.9	19.8	17.5	15.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
81.0	20.5	17.7	15.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
84.0	18.3	15.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
87.0	16.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
90.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTE:

1. MULLION CHART APPLIES TO NON-REINFORCED ASSEMBLIES, WHEN MULLED IN ONE-WAY, STACK OR RIBBON, CONFIGURATIONS.
2. DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
3. MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
4. DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS SHALL BE UNDER SEPARATE FL APPROVAL.
5. MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS:
GUSSET INSTALLATION TO GROUT FILLED OR HOLLOW BLOCK SUBSTRATES
6. TRIBUTARY WIDTH = W = (A+B)/2
7. REFER TO SHEET 4 FOR INSTALLATION DETAILS.
8. WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: 100 SERIES NON-REINF.
& LVL MULLIONS
GROUP II ONE WAY LOAD TABLE:
GROUT FILLED OR HOLLOW BLOCK

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004

PH: (954) 399-8478 FX: (954) 744-4738

REVISIONS

NO.	DESCRIPTION	BY	DATE



DATE: 08.02.16

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SCALE: NTS

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AWD103

SHEET: 9 OF 13

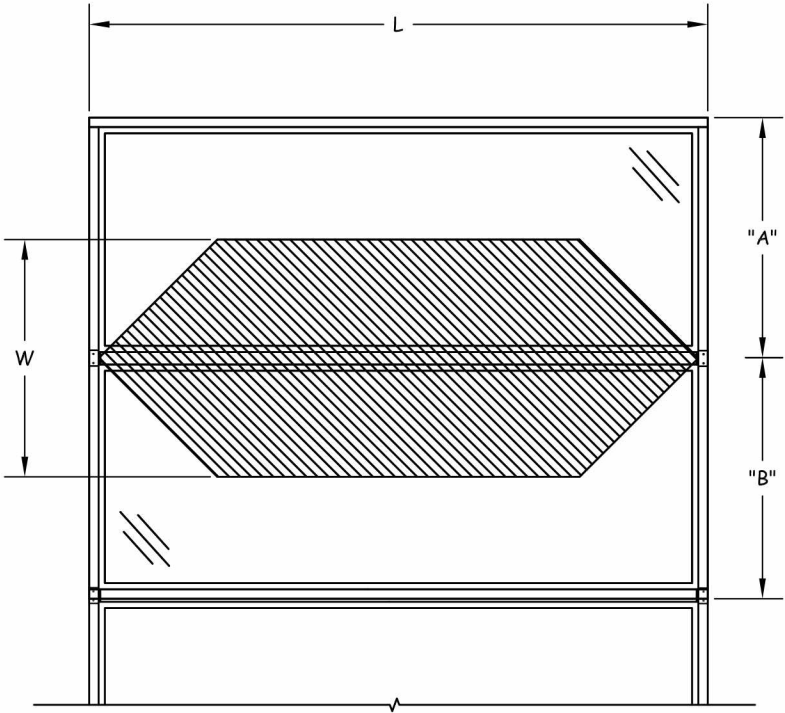
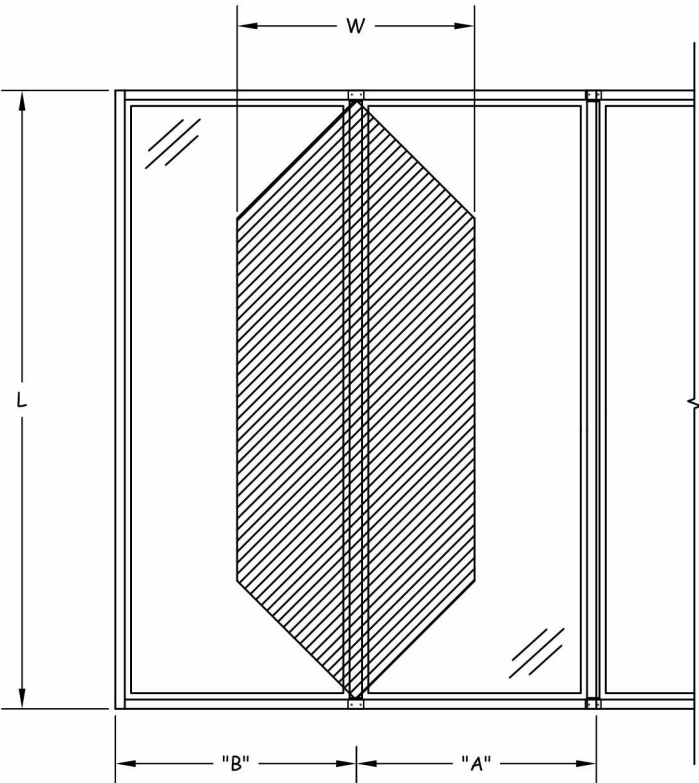
FIBERGLASS NON-REINFORCED MULL TABLE: GROUP III

DESIGN PRESSURE CAPACITIES FOR INSTALLATION INTO 2X WOOD/METAL STUD/CONCRETE INSTALLATIONS

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF): WOOD/METAL STUD/CONCRETE INSTALLATIONS																				
L - Mull Length (in)	W - Tributary Width (in)																			
	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0	
36.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
42.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
48.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
54.0	45.0	45.0	45.0	45.0	45.0	45.0	44.2	42.2	40.7	39.6	38.9	38.4	38.2	38.2	38.2	38.2	38.2	38.2	38.2	38.2
57.0	45.0	45.0	45.0	45.0	42.0	39.1	36.9	35.1	33.7	32.6	31.8	31.3	30.9	30.8	30.8	30.8	30.8	30.8	30.8	30.8
60.0	45.0	45.0	42.9	38.8	35.6	33.1	31.1	29.5	28.2	27.2	26.4	25.8	25.4	25.2	25.1	25.1	25.1	25.1	25.1	25.1
63.0	45.0	41.5	36.8	33.2	30.5	28.2	26.5	25.0	23.9	22.9	22.2	21.6	21.2	20.9	20.7	20.6	20.6	20.6	20.6	20.6
66.0	41.4	35.9	31.8	28.7	26.3	24.3	22.7	21.4	20.4	19.5	18.9	18.3	17.9	17.6	17.3	17.2	17.1	17.1	17.1	17.1
69.0	36.2	31.3	27.7	25.0	22.8	21.1	19.7	18.5	17.6	16.8	16.2	15.7	15.2	-	-	-	-	-	-	-
72.0	31.8	27.5	24.3	21.9	20.0	18.4	17.2	16.1	15.3	-	-	-	-	-	-	-	-	-	-	-
75.0	28.0	24.3	21.4	19.3	17.6	16.2	15.1	-	-	-	-	-	-	-	-	-	-	-	-	-
78.0	24.9	21.5	19.0	17.1	15.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
81.0	22.2	19.2	16.9	15.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
84.0	19.9	17.1	15.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
87.0	17.9	15.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
90.0	16.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTE:

1. MULLION CHART APPLIES TO NON-REINFORCED ASSEMBLIES, WHEN MULLED IN ONE-WAY, STACK OR RIBBON, CONFIGURATIONS.
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GUSSET INSTALLATION TO 2X WOOD, METAL STUD, OR CONCRETE
6. TRIBUTARY WIDTH = W = (A+B)/2
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100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
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TITLE: 100 SERIES NON-REINF.
& LVL MULLIONS
GROUP III ONE WAY LOAD TABLE: 2X
WOOD/METAL STUD/CONCRETE

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004

PH: (954) 399-8478 FX: (954) 744-4738

REVISIONS		DESCRIPTION	BY	DATE
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SHEET: 10 OF 13

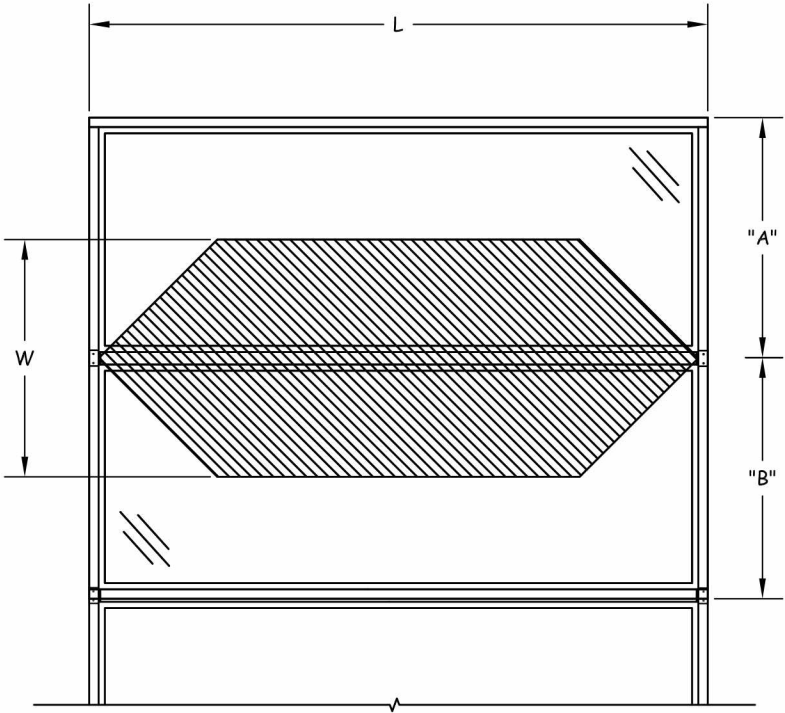
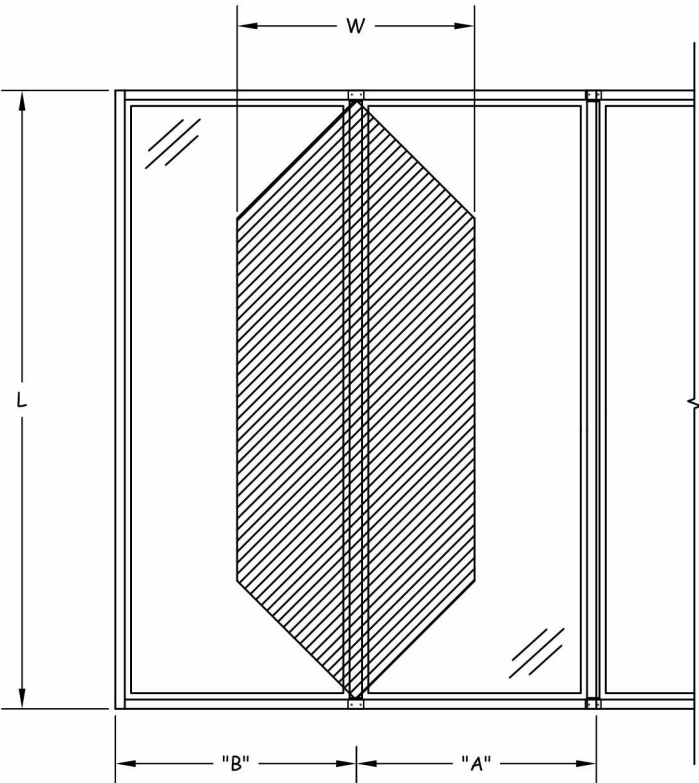
FIBERGLASS NON-REINFORCED MULL TABLE: GROUP III

DESIGN PRESSURE CAPACITIES FOR INSTALLATION INTO GROUT FILLED OR HOLLOW BLOCK SUBSTRATES

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF): GROUT FILLED OR HOLLOW BLOCK INSTALLATIONS																			
L - Mull Length (in)	W - Tributary Width (in)																		
	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0
36.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
42.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
48.0	45.0	45.0	45.0	44.5	41.9	39.9	38.4	37.3	36.6	36.1	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
54.0	45.0	45.0	41.1	37.9	35.4	33.5	32.0	30.8	29.9	29.3	28.8	28.5	28.4	28.4	28.4	28.4	28.4	28.4	28.4
57.0	45.0	42.5	38.4	35.3	32.9	31.0	29.5	28.4	27.4	26.7	26.2	25.8	25.6	25.5	25.5	25.5	25.5	25.5	25.5
60.0	45.0	39.9	36.0	33.0	30.7	28.9	27.4	26.3	25.3	24.6	24.0	23.6	23.3	23.1	23.0	23.0	23.0	23.0	23.0
63.0	42.7	37.6	33.9	31.0	28.8	27.0	25.6	24.4	23.5	22.8	22.2	21.6	21.2	20.9	20.7	20.6	20.6	20.6	20.6
66.0	40.4	35.6	31.8	28.7	26.3	24.3	22.7	21.4	20.4	19.5	18.9	18.3	17.9	17.6	17.3	17.2	17.1	17.1	17.1
69.0	36.2	31.3	27.7	25.0	22.8	21.1	19.7	18.5	17.6	16.8	16.2	15.7	15.2	-	-	-	-	-	-
72.0	31.8	27.5	24.3	21.9	20.0	18.4	17.2	16.1	15.3	-	-	-	-	-	-	-	-	-	-
75.0	28.0	24.3	21.4	19.3	17.6	16.2	15.1	-	-	-	-	-	-	-	-	-	-	-	-
78.0	24.9	21.5	19.0	17.1	15.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
81.0	22.2	19.2	16.9	15.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
84.0	19.9	17.1	15.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
87.0	17.9	15.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
90.0	16.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTE:

1. MULLION CHART APPLIES TO NON-REINFORCED ASSEMBLIES, WHEN MULLED IN ONE-WAY, STACK OR RIBBON, CONFIGURATIONS.
2. DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
3. MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
4. DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS SHALL BE UNDER SEPARATE FL APPROVAL.
5. MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS:
GUSSET INSTALLATION TO GROUT FILLED OR HOLLOW BLOCK SUBSTRATES
6. TRIBUTARY WIDTH = W = (A+B)/2
7. REFER TO SHEET 4 FOR INSTALLATION DETAILS.
8. WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



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WINDOWS • DOORS

100 FOURTH AVE NORTH
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PH: (651) 264-5150 FX: (651) 264-5485

TITLE: 100 SERIES NON-REINF.
& LVL MULLIONS
GROUP III ONE WAY LOAD TABLE:
GROUT FILLED OR HOLLOW BLOCK

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

REVISIONS

NO.	DESCRIPTION	BY	DATE

HERMES F. NORERO
LICENSE
No. 73778
STATE OF
FLORIDA
REGISTERED PROFESSIONAL ENGINEER
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
FBE# 0071

DATE: 08.02.16
DWN BY: MSS
CHK BY: HFN
SCALE: NTS

DWG #: **AWD103**
SHEET: **11 OF 13**

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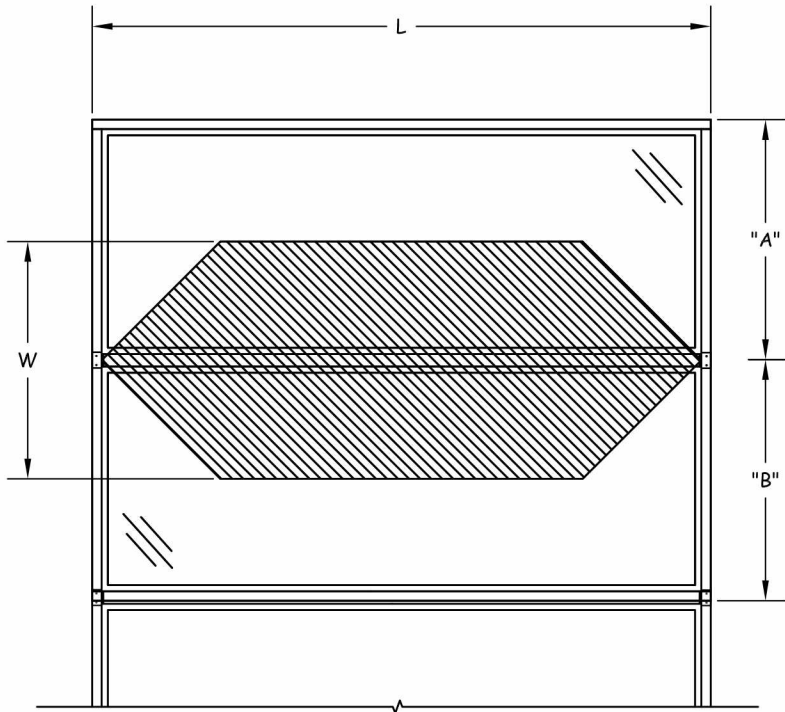
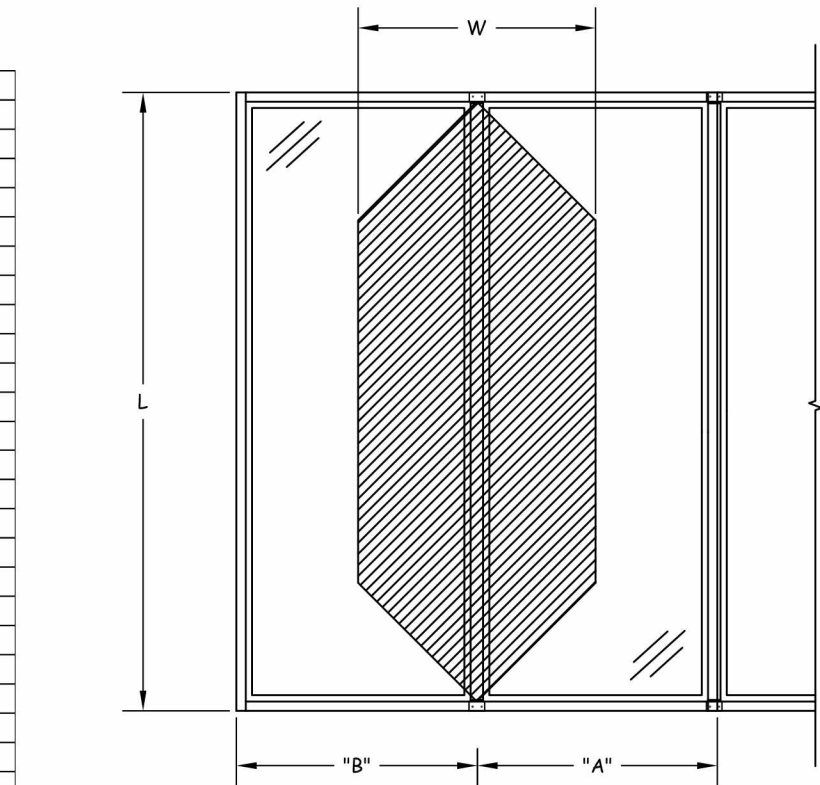
LVL REINFORCED MULL TABLE: GROUP IV

DESIGN PRESSURE CAPACITIES FOR INSTALLATION INTO 2X WOOD/METAL STUD/CONCRETE/HOLLOW BLOCK/GROUT FILLED BLOCK SUBSTRATES

MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF): 2X WOOD/METAL STUD/CONCRETE/CMU																			
L - Mull Length (in)	W - Tributary Width (in)																		
	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0
36.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
42.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
48.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
54.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
60.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
63.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
66.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
69.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
72.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
75.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
78.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	44.5	43.2	42.1	41.2	40.6	40.0	39.7
81.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	44.3	42.3	40.5	39.1	37.9	36.9	36.0	35.3	34.8	34.4
84.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	44.1	41.5	39.3	37.5	35.9	34.6	33.5	32.5	31.7	31.0	30.5	30.0
87.0	45.0	45.0	45.0	45.0	45.0	45.0	42.2	39.4	37.1	35.1	33.4	32.0	30.8	29.7	28.8	28.0	27.4	26.8	26.4
90.0	45.0	45.0	45.0	45.0	44.6	40.9	37.9	35.4	33.3	31.5	29.9	28.6	27.5	26.5	25.7	24.9	24.3	23.8	23.4
93.0	45.0	45.0	45.0	44.4	40.3	37.0	34.2	31.9	30.0	28.3	26.9	25.7	24.7	23.8	23.0	22.3	21.7	21.2	20.8
96.0	45.0	45.0	45.0	40.3	36.5	33.5	31.0	28.9	27.1	25.6	24.3	23.2	22.2	21.4	20.7	20.0	19.5	19.0	18.6
99.0	45.0	45.0	41.0	36.7	33.2	30.5	28.2	26.2	24.6	23.2	22.0	21.0	20.1	19.3	18.6	18.0	17.5	17.1	16.7
102.0	45.0	42.5	37.4	33.5	30.3	27.8	25.7	23.9	22.4	21.1	20.0	19.1	18.3	17.5	16.9	16.3	15.8	15.4	15.0
105.0	45.0	38.9	34.3	30.6	27.7	25.4	23.5	21.8	20.5	19.3	18.3	17.4	16.6	15.9	15.4	-	-	-	-
108.0	41.5	35.8	31.4	28.1	25.4	23.3	21.5	20.0	18.7	17.7	16.7	15.9	15.2	-	-	-	-	-	-
111.0	38.2	32.9	28.9	25.8	23.4	21.4	19.8	18.4	17.2	16.2	15.3	-	-	-	-	-	-	-	-
114.0	35.3	30.3	26.7	23.8	21.6	19.7	18.2	16.9	15.8	-	-	-	-	-	-	-	-	-	-
117.0	32.6	28.1	24.6	22.0	19.9	18.2	16.8	15.6	-	-	-	-	-	-	-	-	-	-	-
120.0	30.2	26.0	22.8	20.4	18.4	16.9	15.5	-	-	-	-	-	-	-	-	-	-	-	-

NOTE:

1. MULLION CHART APPLIES TO LVL REINFORCED ASSEMBLIES, WHEN MULLED IN ONE-WAY, STACK OR RIBBON, CONFIGURATIONS.
2. DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
3. MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
4. DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS SHALL BE UNDER SEPARATE FL APPROVAL.
5. MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS:
GUSSET INSTALLATION TO 2X WOOD, METAL STUD, GROUT FILLED OR HOLLOW BLOCK, OR CONCRETE.
6. TRIBUTARY WIDTH = W = (A+B)/2
7. REFER TO SHEET 5 FOR INSTALLATION DETAILS.
8. WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: 100 SERIES NON-REINF.
& LVL MULLIONS
GROUP IV ONE WAY LOAD TABLE: 2X
WOOD/METAL STUD/CONCRETE/CMU

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004
PH: (954) 399-8478 FX: (954) 744-4738

REVISIONS	NO.	DESCRIPTION	BY	DATE



DATE: 08.02.16
DWG BY: MSS
CHK BY: HFN
SCALE: NTS

DWG #:
AWD103

SHEET:
12 OF 13

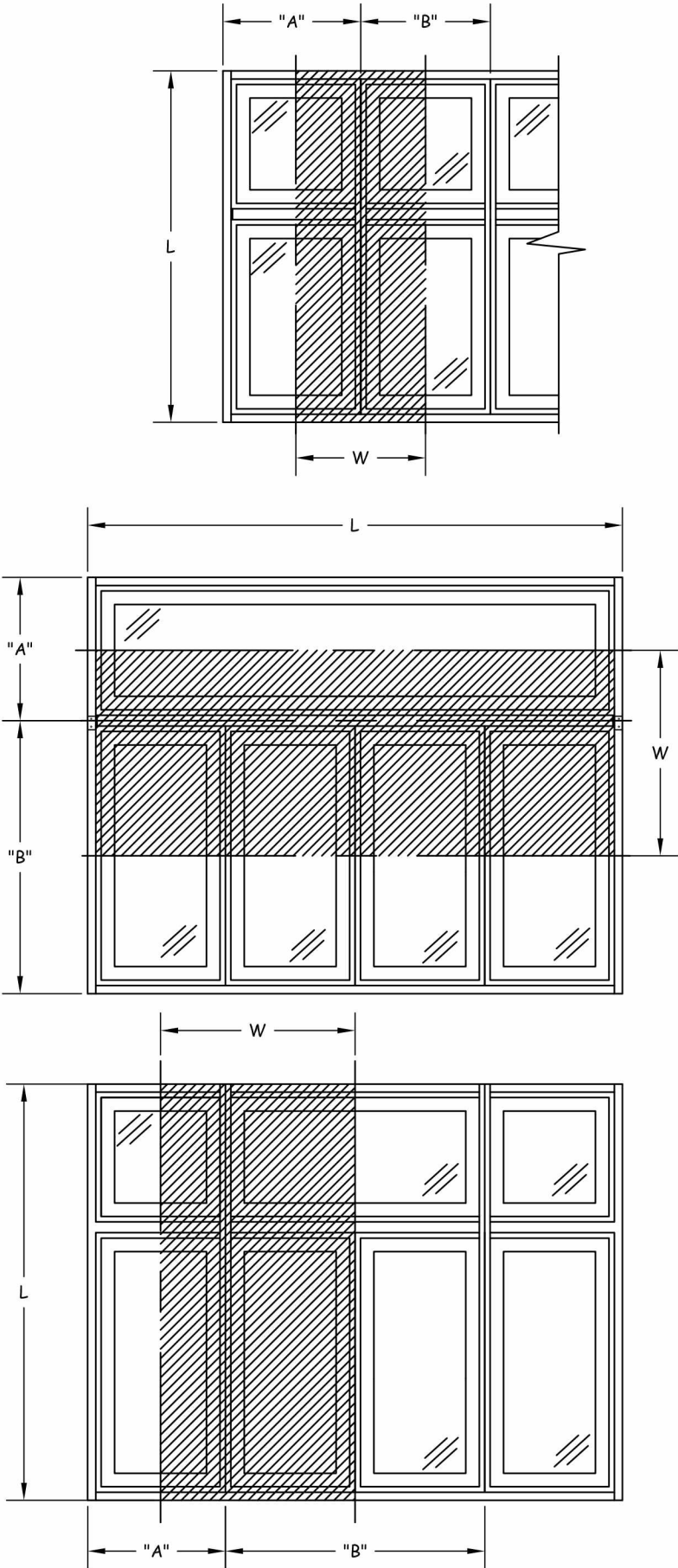
LVL REINFORCED MULL TABLE: GROUP IV

DESIGN PRESSURE CAPACITIES FOR INSTALLATION INTO 2X WOOD/METAL STUD/CONCRETE/HOLLOW BLOCK/GROUT FILLED BLOCK SUBSTRATES

L - Mull Length (in)	MAXIMUM DESIGN PRESSURE CAPACITY CHART (PSF): 2X WOOD/METAL STUD/CONCRETE/MASONRY																		
	W - Tributary Width (in)																		
	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0
36.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	64.2	61.4	58.9
42.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	55.1	52.7	50.5
48.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	48.2	46.1	44.2
54.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	44.9	42.8	41.0	39.3
60.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	44.6	42.4	40.4	38.5	36.9	35.3
63.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	44.9	42.5	40.4	38.5	36.7	35.1	33.6
66.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	42.8	40.6	38.5	36.7	35.0	33.5	32.1
69.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	43.4	41.0	38.8	36.9	35.1	33.5	32.1	30.7
72.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	44.2	41.6	39.3	37.2	35.3	33.6	32.1	30.7	29.4
75.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	42.8	40.1	37.8	35.7	33.8	32.1	30.6	29.2	27.9	26.8
78.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	43.9	40.8	38.1	35.7	33.6	31.7	30.1	28.5	27.2	26.0	24.8	23.8
81.0	45.0	45.0	45.0	45.0	45.0	45.0	42.5	39.2	36.4	34.0	31.9	30.0	28.3	26.8	25.5	24.3	23.2	22.2	21.2
84.0	45.0	45.0	45.0	45.0	45.0	41.6	38.1	35.2	32.7	30.5	28.6	26.9	25.4	24.1	22.9	21.8	20.8	19.9	19.0
87.0	45.0	45.0	45.0	45.0	41.1	37.4	34.3	31.7	29.4	27.4	25.7	24.2	22.9	21.7	20.6	19.6	18.7	17.9	17.1
90.0	45.0	45.0	45.0	41.3	37.2	33.8	31.0	28.6	26.5	24.8	23.2	21.9	20.6	19.6	18.6	17.7	16.9	16.2	15.5
93.0	45.0	45.0	42.1	37.4	33.7	30.6	28.1	25.9	24.1	22.5	21.1	19.8	18.7	17.7	16.8	16.0	15.3	-	-
96.0	45.0	43.8	38.3	34.0	30.6	27.8	25.5	23.6	21.9	20.4	19.1	18.0	17.0	16.1	15.3	-	-	-	-
99.0	45.0	39.9	34.9	31.0	27.9	25.4	23.3	21.5	19.9	18.6	17.5	16.4	15.5	-	-	-	-	-	-
102.0	42.6	36.5	31.9	28.4	25.5	23.2	21.3	19.6	18.2	17.0	16.0	15.0	-	-	-	-	-	-	-
105.0	39.0	33.4	29.3	26.0	23.4	21.3	19.5	18.0	16.7	15.6	-	-	-	-	-	-	-	-	-
108.0	35.8	30.7	26.9	23.9	21.5	19.6	17.9	16.5	15.4	-	-	-	-	-	-	-	-	-	-
111.0	33.0	28.3	24.8	22.0	19.8	18.0	16.5	15.2	-	-	-	-	-	-	-	-	-	-	-
114.0	30.5	26.1	22.9	20.3	18.3	16.6	15.2	-	-	-	-	-	-	-	-	-	-	-	-
117.0	28.2	24.2	21.1	18.8	16.9	15.4	-	-	-	-	-	-	-	-	-	-	-	-	-
120.0	26.1	22.4	19.6	17.4	15.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTE:

1. MULLION CHART APPLIES TO LVL REINFORCED ASSEMBLIES, WHEN MULLED IN TWO-WAY,'X' OR 'T' CONFIGURATIONS.
2. DESIGN PRESSURE VALUES ARE POSITIVE AND NEGATIVE IN PSF.
3. MAXIMUM DEFLECTION HAS BEEN LIMITED TO L/175.
4. DESIGN PRESSURE OF ASSEMBLY IS LIMITED TO THE LESSER DESIGN PRESSURE OF THE MULLION ASSEMBLY OR THE INDIVIDUAL UNIT OF INSTALLATION. ADJACENT WINDOWS SHALL BE UNDER SEPARATE FL APPROVAL.
5. MULLION CHART APPLIES TO THE FOLLOWING INSTALLATION CONDITIONS:
GUSSET INSTALLATION TO 2X WOOD, METAL STUD, GROUT FILLED OR HOLLOW BLOCK, OR CONCRETE
6. TRIBUTARY WIDTH = $W = (A+B)/2$
7. REFER TO SHEET 5 FOR INSTALLATION DETAILS.
8. WHEN WINDOWS ARE STACKED VERTICALLY, THE MANUFACTURER/INSTALLER SHALL ENSURE THAT THE WEIGHT OF UNITS ABOVE WILL NOT CAUSE DEFLECTIONS OR STRESSES WHICH WILL AFFECT OPERATION OR STRUCTURAL ADEQUACY OF UNITS BELOW.



100 FOURTH AVE NORTH
BAYPORT, MN 55003-1096
PH: (651) 264-5150 FX: (651) 264-5485

TITLE: 100 SERIES NON-REINF.
& LVL MULLIONS
GROUP IV TWO WAY LOAD TABLE: 2X
WOOD/METAL STUD/CONCRETE/CMU

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. #338
DANIA BEACH, FL 33004

PH: (954) 399-8478 FX: (954) 744-4738

REVISIONS	NO.	DESCRIPTION	BY	DATE



DATE: 08.02.16
DWG BY: DWN
CHK BY: MSS

SCALE: NTS

DWG #:
AWD103

SHEET:
13 OF 13